



# MP POWER TRANSMISSION COMPANY LIMITED

STATE LOAD DESPATCH CENTRE, NAYAGAON, JABALPUR 482 008

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No.07-05/SG-9B-II/ 98

Jabalpur, dated 12-01-2011

To

## As per distribution list

Sub: Agenda of 23<sup>rd</sup> meeting of Operation and Coordination Committee of MP.

Please find enclosed herewith the Agenda of 23<sup>rd</sup> meeting of the Operation and Coordination Committee of MP **scheduled on 21<sup>st</sup> January 2011 at 11.00 AM**. The agenda of the meeting is available on the website of SLDC '[www.sldcmpindia.com](http://www.sldcmpindia.com)'.

It is also requested to please forward the information required for the meeting and the additional agenda points for inclusion, if any, to SLDC Jabalpur, so that the same could be included in the agenda for discussion in the meeting.

sd/-  
( P.A.R. Bende)  
Member Secretary, OCC  
S.E.(LD-OPN), SLDC  
MPPTCL, Jabalpur

Encl : As above.

## Distribution List

The Chief Engineer (T&C), MP Power Transmission Co. Limited, Jabalpur.	The Superintending Engineer (DCC-WZ), DISCOM Control Centre, MP Paschim Kshetra Vidyut Vitaran Co. Limited, Near Polo Ground, Jail Road, Indore.
The Chief Engineer (S/S), MP Power Transmission Co. Limited, Jabalpur.	The Executive Engineer (DCC-EZ), DISCOM Control Centre, MP Poorva Kshetra Vidyut Vitaran Co. Limited, Jabalpur.
The Chief Engineer (Power System), MP Power Transmission Co. Limited, Jabalpur	The Additional General Manger (LM), DISCOM Control Centre, MP Madhya Kshetra Vidyut Vitaran Co. Limited, Bhopal.
The Chief Engineer (O&M:Gen.), MP Power Generating Co. Limited, Jabalpur.	The Chief Engineer (PM&C), Narmada Hydroelectric Development Corpn. Ltd, NHDC Parisar, Shamla Hills, Bhopal – 462013.
The Chief Engineer (O&M:Hydel), MP Power Generating Co. Limited, Jabalpur.	The General Manager, Indira Sagar Power Station, NHDC Office complex, PO : Narmada Nagar, Distt : Khandwa (MP) – 450 119.
The Chief General Manager (S), MP Power Trading Company, Jabalpur.	The General Manager, Omkareshwar Power Station, Prashnik Bhawan, Urja Vihar, Sidhwarkut, Distt : Khandwa (MP) – 450 554.
The Executive Engineer, Sub Load Despatch Centre, MPPTCL, Indore	The Executive Engineer, Sub Load Despatch Centre, MPPTCL, Bhopal
The President, Shree Maheshwar Hydrel Power Corporation Limited, “Abhyanchal Parisar”, Mandleshwar Distt : Khargone 451 221 <b>(Fax 07283-233830)</b>	

**AGENDA FOR 23<sup>RD</sup> MEETING OF OPERATION & COORDINATION COMMITTEE OF MP  
TO BE HELD ON 21<sup>ST</sup> JANUARY 2011 AT 11.00 AM AT INDORE.**

**ITEM NO. 1 : CONFIRMATION OF MINUTES :** Minutes of 22<sup>nd</sup> meeting of Operation & coordination committee of MP held on 20<sup>th</sup> November 2010 at State Load Despatch Centre, MPPTCL, Jabalpur were forwarded to the committee members vide No. No.07-05/SG-9B-II/2257 dated 07-12-2010 and also uploaded on the SLDC website. No comments have been received from the members.

**The committee may confirm the minutes.**

**ITEM NO. 2 :REVIEW OF SYSTEM OPERATION DURING THE MONTHS NOV & DE C2010.**

**2.1 Frequency Particulars :** The average frequency during November & December 2010 was recorded as 50.00 Hz & 49.92 Hz respectively. The system frequency was below 49.5 Hz for these months for 0.49% & 2.02 % of time as compared to 0.95 % time during October 2010. During November & December 2010 the system frequency dipped below 48.8 Hz at nil occasions.

The detailed frequency particulars for the month of November & December 2010 are enclosed at Annexure-2.1. The brief details of frequency profile is given hereunder :

Month	Average frequency	minimum integrated frequency over an hour	maximum integrated frequency over an hour	instantaneous minimum frequency	Instantaneous maximum frequency
NOV 10	50.00 Hz	49.64 Hz	50.52 Hz	49.12 Hz	50.73 Hz
DEC 10	49.92 Hz	49.49 Hz	50.42 Hz	48.94 Hz	50.68 Hz

**The Committee may like to note.**

**2.2 Operational Matters**

**2.2.1 Operational Discipline :** System operated in terms of frequency profile for the months November & December 2010 is as given below for discussion by the committee :

Month	% of time Frequency Below 49.5 Hz	% of time Frequency above 50. 2 Hz	% of time frequency within the permissible range of 49.5-50.2 Hz	Average monthly frequency	No. of times frequency dipped below 48.8 Hz
NOV 10	0.49	12.74	86.77	50.00	0
DEC 10	2.02	09.04	88.94	49.92	0

**2.3.1 Voltage Profile :** Date wise voltage profile at some of the important 400 KV and 220 KV substations during the months November & December 2010 is enclosed at Annexure -2.3.

During the months November & December 2010, the deviation of voltage from the accepted limit on either side was recorded at following location in MP Grid.

Sr .N o.	Name of Substation	NOVEMBER 2010				DECEMBER 2010			
		Max. Voltage observed		Min. Voltage observed		Max. Voltage observed		Min. Voltage observed	
		Voltage	Date	Volta ge	Date	Voltage	Date	Voltage	Date
1	Indore	425	23.11.10	---	---	---	---	---	---
2	Itarsi	431	16.11.10	---	---	428	28,29.12.10	---	---
3	Bina	432	18.11.10	---	---	427	03.12.10	---	---
4	Gwalior	432	29.11.10	---	---	431	31.12.10	---	---
5	Nagda	431	05.11.10	---	---	430	12,13.12.10	---	---

**Committee may please note & discuss.**

**2.3.2 Status of Capacitor Banks in sub-transmission system :** The information as submitted by DISCOMs in the 22<sup>nd</sup> OCC meeting is detailed below :

DISCOM	Capacitor bank installed in good condition (No)		Capacitor bank installed but defective & are repairable (No)		Requirement of repair against each unit (No)	Requirement against non-repairable capacitor banks		Capacitor banks already covered under ADB T-V		Balance capacitor banks to be covered in other schemes	
	600 KVAR	1200 KVAR	600 KVAR	1200 KVAR	No of 100 KVAR Units required	600 KVAR	1200 KVAR	600 KVAR	1200 KVAR	600 KVAR	1200 KVAR
<b>WZ</b>	490	337	10	100	286	38	40	150	136	44	37
<b>CZ</b>	9	680	3	34	24	3	16	0	588	42	196
<b>EZ</b>	406	235	9	36	132	23	48				

West & East DISCOM has also furnished the updated additional information as detailed below.:

SN	Particularas	WZ	EZ
1	MVAR capacity of connected capacitors in good condition	698.40 MVAR	525.6 MVAR
2	MVAR capacity of connected capacitors in partially good condition	97.40 MVAR	35.4 MVAR
3	MVAR capacity of connected capacitors in good condition including partially good condition.	795.80 MVAR	560.6 MVAR
4	MVAR capacity of connected capacitors covered under ABT T-V Scheme.	253.20 MVAR	NIL
5	G. total MVAR of capacitors including that are proposed in ADB T-V scheme	1045.40 MVAR	NIL

It is requested that the DISCOMs should furnish the updated status of capacitor banks in the above format so that the same could be discussed in the meeting.

**[ACTION : DISCOMs]**

**2.4.1 Status of completion of on going Transmission Schemes being executed by MPPTCL :** The updated status on various ongoing Transmission Schemes for the current financial year i.e. Year - 2010-2011 as submitted by MPPTCL is enclosed as annexure 2.4.1. The updated status may be furnished.

[Action: PS, MPPTCL]

**2.4.2 U/F and df/dt Relay Operation**

(i) **U/F and df/dt Relay Operation:** During November & December 2010 the system frequency dipped below 48.8 Hz at nil occasions. **The frequency did not touch 48.6 and 48.2 Hz during the period.**

Committee may like to note.

(ii) **Defective u/f, df/dt relays :** In the 22<sup>nd</sup> OCC meeting, MPPTCL had submitted the list of following EHV substations where u/f relays are to be installed.

SN	Name of EHV Substation	Name of T&C circle	Present Status
01	220 KV s/s Pipariya	Bhopal	Relay installation shall be completed by end of November 2010.
02	220 KV s/s Ashta	Bhopal	
03	132 KV s/s Shyampur	Bhopal	
04	<b>132 KV s/s Chhegaon</b>	<b>Indore</b>	<b>Installed</b>
05	<b>132 KV s/s Badgaon</b>	<b>Indore</b>	<b>Installed</b>
06	<b>132 KV s/s Kasrawad</b>	<b>Indore</b>	<b>Installed</b>
07	<b>132 KV s/s Petlawad</b>	<b>Indore</b>	<b>Installed</b>
08	132 KV s/s Betma	Indore	Relay required
09	<b>220 KV s/s Badod</b>	<b>Ujjain</b>	<b>Installed</b>
10	<b>132 KV s/s Zarda</b>	<b>Ujjain</b>	<b>Installed</b>
11	132 KV s/s Mazawan	Satna	Relay required
12	132 KV s/s Pawai	Satna	Relay required
13	132 KV s/s Kolaras	Gwalior	Relay required

T& C may submit the latest updated position.

[ACTION : T&C, MPPTCL]

**2.5 Power Cuts / Load restrictions/Differential Load Shedding by DISCOMS & group allocation to 33 KV feeders :**

(i) Details of Discom wise Power cuts and Regulatory measures during November & December 2010 are enclosed at Annexure 2.5. **Committee may like to note**

**ITEM NO. 3 : OPERATIONAL PLANNING**

**3.1 Anticipated availability for the Month of January 2011 to March 2011:** Details of Source wise Availability for the period November 2010 to March-2011 is enclosed in Annexure-3.1. This has been worked out on the basis availability as furnished by the respective authorities for 2010-11. **[Committee may like to note]**

**3.2 Online submission to CEA of daily generation report / weekly operation report by generating stations of Western Region :** In the 419<sup>th</sup> OCC meeting of Western region WRPC has informed that OPM division of CEA is bringing daily generation report (DGR) of previous date on the current date by 1600 hrs or on the very next working day through online process developed recently for direct data submission by external users and have requested that utilities may submit the data through online facility as per the procedure and the format attached with the

Annexure 3.1.2 of agenda of 419<sup>th</sup> OCCM of WRPC. All generation utilities (MPPGCL/NHDC) are requested to login to <http://cea.nic.in> web-site and click "LOGIN FOR POWER UTILITIES" link in the left menu on its home-page by entering User Domain as "Accounts", the user name and password is already provided to them by CEA for daily on-line submission of the generation data. In case of difficulties or on-line help required, if any, the CEA officers of OPM division may be contacted at the email address / telephone numbers indicated in the above mentioned Annexure.

MPPGCL and NHDC are requested to regularly furnish the online information to CEA.

**[Action : MPPGCL/NHDC]**

- 3.3 (i) Demand Estimation for Operational Purposes (Clause 5.3(e) & (f) of IEGC-2010 ) :** At present SLDC is doing daily weekly / monthly demand estimation for operational purpose on the basis of inputs as provided by the Distribution Licensees. In this regard IEGC-2010 clause 5.3(e) & (f) are reproduced hereunder.

*"Clause 5.3(e) : While the demand estimation for operational purposes is to be done on a daily/weekly/monthly basis initially, mechanisms and facilities at SLDCs shall be created at the earliest but not later than 1.1.2011 to facilitate on-line estimation of demand for daily operational use for each 15 minutes block.*

*Clause 5.3(f) : The monthly estimated demand by the SLDC shall be provided to RLDC and RPC for better operation planning."*

The monthly estimated data is required to be provided by SLDC to WRLDC and WRPC for better operational planning. All the Discoms are requested to furnish the Month ahead demand estimation to SLDC by 20<sup>th</sup> of every month, so that consolidated demand estimation could be prepared and forward to WRLDC/WRPC. **[ACTION : DISCOMS]**

- 3.3 (ii) Demand Disconnection :** The clause 5.4.2(d) of IEGC 2010 regarding demand disconnection is reproduced hereunder, which stipulates necessity to formulate and implement state of the art demand management schemes for automatic demand management to restrict over drawal at low frequency.

*"Clause 5.4.2(d):The SLDC through respective State Electricity Boards/Distribution Licensees shall also formulate and implement state-of-the-art demand management schemes for automatic demand management like rotational load shedding, demand response (which may include lower tariff for interruptible loads) etc. before 01.01.2011, to reduce overdrawl in order to comply para 5.4.2 (a) and (b). A Report detailing the scheme and periodic reports on progress of implementation of the schemes shall be sent to the Central Commission by the concerned SLDC."*

A Report detailing the scheme and periodic reports on progress of implementation of the schemes is to be sent to the Central Commission by the concerned SLDC and accordingly a preliminary report has been furnished to C ERC by SLDC Jabalpur.

It is understood that the DISCOMs are in process of implementation of the ERP in their respective control areas. The State-of-the-art demand side management (DSM) schemes for automatic demand management like rotational load shedding, demand response etc may be included in the ERP package so that the DCCs are able to carry out the demand management functions efficiently. Alternatively, in case any activity is being initiated for conducting computer study for long term demand side management then this requirement could also be included in the same.

The DISCOMs may therefore furnish the details on current status on implementation of State-of-the-art demand management schemes for automatic demand management in the DISCOMs. **[ACTION : DISCOMs]**

**3.3 Generating Units under planned outage and proposed maintenance programme :** The Amarkantak unit no.3 is under COH / R&M works wef 01.11.2010 to 31.03.2011.

**[Committee May like to note]**

**3.4 Proposed shutdown programme of Transmission lines / Transformers :** The proposed maintenance programme for the period 16<sup>th</sup> January to 15<sup>th</sup> February 2011 is annexed at Annexure-3.4 .

**[Committee May like to note]**

**3.5 Long Outages of transmission elements:** The transmission elements as detailed below are under long outages.

<b>S N</b>	<b>Line/Transformer/Breaker/ Reactor etc under long outage</b>	<b>Outage date</b>	<b>Reason</b>	<b>Expected date of restoration.</b>
1	63 MVAR Bus-I Reactor at Satpura TPS.	24.05.2005	Damage of all three limbs along with reactor tank.	Order has been placed to BHEL. The delivery schedule is 15 months i.e. July 2011.
2	40 MVA 132/33 KV transformer at Amarkantak TPS.	19.04.2010	Damage due to fire.	It has been informed by MPPGCL that the process for procurement of new transformer has been initiated.

MPPGCL should furnish the latest status.

**[Action MPPGCL]**

**ITEM NO. 4 : OPERATIONAL STATISTICS FOR THE MONTH OF NOVEMBER & DECEMBER 2010 :** The details of actual generation, Schedule from Central Sector demand etc. are given in the following Annexures:

Annex. 4.1 Unit wise actual Generation of MPPGCL thermal Units and station wise Generation of MPPGCL& NHDC Hydel Units.

Annex. 4.2 Power Supply Position.

Annex. 4.3 Hourly Average of Availability and Demand.

Annex. 4.4 Hourly average schedule Vs Drawal of DISCOMs.

**[Committee may like to note]**

**ITEM NO. 5 : SYSTEM DISTURBANCE IN MP DURING November & December 2010 :** The major trippings on 11.12.2010 at Burwaha & Omkareshwar HPS HP and on 25.12.2011 at Nagda area is enclosed at Annexure-5.0.

**[Committee may like to Discuss]**

**ITEM NO. 6.0 : ADDITIONAL OPERATIONAL ISSUES :**

**6.1 Black-Start facilities and Schedule for Mock Exercise :** The details of DG sets installed at various power stations has been received. The schedule of mock trial run of black start of Hydel units is being prepared for the first half of current year. The procedures and schedule shall be intimated to the concerned utilities. The mock trial run shall be conducted in the presence of SLDC official. All the Generating utilities may take necessary steps for preparedness for the same.

**ACTION : MPPGCL/NHDC**

**6.2 Preparation of contingency scheme by distribution companies:** As informed earlier, CERC vide order dated 28.04.2010 in the Suo-Motu petition no.246/2009, has directed, SLDC and Distribution Companies in the State to be prepared with contingency scheme to handle the unprecedented situations endangering the safety and security of the grid. The SLDC was further directed to ensure that such contingency schemes were placed in the control centers of all the Distribution Companies for their awareness and necessary action.

Accordingly the DISCOMs were requested to prepare contingency scheme in their respective control areas and to ensure that such contingency schemes were placed in the Control Centers of all the Distribution Companies for their awareness and necessary action. All the DISCOMs have furnished the contingency scheme and confirmed that a copy is available in the DCC control room.

However, on scrutiny it has been observed that the contingency scheme furnished by DISCOMs is inadequate to handle contingency situations as by large contained only schedule load shedding scheme. In the 22<sup>nd</sup> OCC meeting, the DISCOMs have agreed to prepare revised contingency plan in which identified 33 KV feeders with average loads shall be included for hand tripping in case of distress situations. However, the revised contingency plan from DISCOMs is not received. The DISCOMs have been advised during workshop for Demand estimation & Demand Control held at SLDC, Jabalpur on 11.01.2011 to prepare the contingency plan accordingly. The same shall be discussed in the OCC meeting.

[ACTION : DISCOMs]

#### **ITEM NO 7 : SCADA/EMS RELATED ISSUES :**

**7.1 PROGRESS OF INSTALLATION OF NEW RTUS ALONG WITH PLCC DATA LINKS AT EHV S/S :** MPPTCL may submit the progress of providing new RTUs and required PLCC equipments at substations.

[Action S/S Cell, MPPTCL]

**7.2 DISCREPANCY IN TELEMETERED VALUES RECEIVED FROM DIFFERENT EHV S/S & POWER STATIONS :** The discrepancy in telemetered values from Power Stations & S/s is being brought to the notice of the concerned officials from time to time. Though the action is being taken for restoration of some of the parameters, many telemetered values are still not received correctly in SCADA system or are not extended / configured in the telemetry equipments in the field. The list of faulty telemetered values/process connections is detailed in annexure-7.2(i) & 7.2(ii).

[ACTION : T&C, MPPTCL & O&M :GEN,MPPGCL]

**7.3 UPGRADATION OF EXISTING RTUS :** The status of upgradation of the existing RTUs on account of commissioning of new feeders and transformers may be furnished by T&C, MPPTCL.

Action- T&C, MPPTCL

#### **8 ABT RELATED PROBLEMS**

**8.1 Installation of ABT Meters at Station X'mer I & II at Satpura Power house-I :-** In the 22<sup>nd</sup> OCC meeting SLDC had requested MPPGCL representative to install ABT meters at Station X'mer I & II at Satpura Power House-I, so that the Sent out of Satpura Power House-I could be computed in 15-minutes time block basis. It was confirmed by EE, GCC, MPPGCL that the ABT meters at Station X'mer I & II at Satpura Power House-I has already been installed and the details of ABT meters will be furnished to SLDC shortly. The details have not been received by SLDC so far, MPPGCL should furnish the same.

Action- O&M:Gen, MPPGCL

**8.2 Installation of ABT Meters at 33 KV feeders emanating from Bargi Left Bank Canal Head Power House :** In the 22<sup>nd</sup> OCC meeting SLDC had requested MPPGCL representative to install ABT meters at both 33KV feeders emanating from 2x5 MW Bargi Left bank canal head power



house to compute the injection of power house. SE (O&M:Hydel) had assured that the ABT meters will be installed at the earliest. The latest position regarding installation of ABT meters may be furnished.

**Action- O&M:Hydel, MPPGCL**

**8.3 Discrepancy in ABT Meter of Gandhisagar- RPS-II feeder at Gandhisagar :** In the 22<sup>nd</sup> OCC meeting SLDC had informed that the ABT meter installed at 132KV Gandhisagar-RPS-II feeder is not recording correctly since long and required to be replaced immediately. The latest position in this regard may be furnished.

**Action- O&M:Hydel, MPPGCL**

**ITEM NO. 9 : Any other issue with the permission of the chair:**

**ITEM No 10 : DATE AND VENUE OF NEXT OCC MEETING :** It is proposed to hold 24<sup>th</sup> meeting of Operation and Coordination Committee of MP on 18<sup>th</sup> March 2011 at SLDC, Jabalpur. However, if any constituent of the OCC is willing to host the meeting the same shall be welcomed.

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**FREQUENCY PARTICULARS**

Particulars	Nov-10		Dec-10	
<b>INTEGRATED OVER AN-HOUR</b>				
Maximum Frequency	50.52 Hz	Between 03.00 hrs & 04.00 Hrs on 23.11.10	50.42 Hz	Between 0300 Hrs & 0400 Hrs on 20.12.10
Minimum Frequency	49.64 Hz	Between 09.00 hrs & 10.00 Hrs on 30.11.10	49.49 Hz	Between 09.00 hrs & 10.00 Hrs on 27.12.10
Average Frequency	50 Hz		49.92 Hz	
<b>INSTANTANEOUS FREQUENCY</b>				
Maximum Frequency	50.73 Hz	AT 03.9 HRS ON 18.11.10	50.68 Hz	AT 03.09 HRS ON 20.12.10
Minimum Frequency	49.12 Hz	AT 18.09 HRS ON 18.11.10	48.94 Hz	AT 09.12 HRS ON 07.12.10

**Percentage of time when frequency was :-**

%age of time when frequency was	Nov-10	Dec-10
Below 48.5 Hz	0.00	0
Between 48.50 Hz and 48.8 Hz	0.00	0
Between 48.80 Hz and 49.2 Hz	0.01	0.08
Between 49.20 Hz and 49.5 Hz	0.48	1.94
Between 49.50 Hz and 49.7 Hz	4.33	12.41
Between 49.70 Hz and 50.2 Hz	82.44	76.53
Between 50.20 Hz and 50.3 Hz	8.67	5.72
Between 50.30 Hz and 51.0 Hz	4.07	3.32
Above 51.0 Hz	0.00	0
No. of times frequency touched 48.80 Hz	0	0
No. of times frequency touched 48.60 Hz	0	0
No. of times frequency touched 51.0 Hz	0	0

### Voltage Profile During the Month of November 2010

Date	Indore		Itarsi		Bina		Gwalior		Nagda	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	415	387	426	400	420	399	426	405	424	394
2	416	394	423	402	422	405	425	405	424	403
3	417	394	423	400	418	402	425	399	424	404
4	418	396	425	401	423	400	426	400	426	402
5	423	394	426	400	421	396	420	406	431	402
6	419	397	423	404	420	403	428	404	428	404
7	420	394	427	402	423	400	425	394	427	402
8	416	392	424	402	419	404	422	399	423	394
9	416	396	424	405	426	406	428	400	423	399
10	418	393	424	404	426	409	427	403	426	396
11	419	394	425	400	425	403	426	399	425	398
12	416	399	423	406	421	408	423	403	421	404
13	416	397	424	405	420	407	425	401	424	405
14	417	393	420	400	418	399	427	395	425	399
15	421	391	426	398	419	400	424	396	428	398
16	424	390	431	396	422	392	423	390	430	396
17	419	397	425	403	425	397	432	393	425	404
18	424	390	431	401	432	403	432	396	426	396
19	420	393	426	400	426	401	430	401	426	398
20	419	385	425	392	425	393	427	396	423	391
21	419	395	422	399	423	401	428	402	426	403
22	422	394	426	400	423	397	427	393	428	397
23	425	400	426	402	423	397	429	390	428	403
24	420	386	422	392	415	393	426	393	422	390
25	420	386	423	390	423	397	425	387	425	393
26	420	396	423	397	422	396	426	393	427	403
27	421	396	427	398	421	397	423	387	430	403
28	423	400	427	402	424	392	428	384	428	407
29	424	400	428	402	424	398	432	391	430	406
30	418	396	420	401	418	393	427	391	425	403
<b>Max / Min</b>	<b>425</b>	<b>385</b>	<b>431</b>	<b>390</b>	<b>432</b>	<b>392</b>	<b>432</b>	<b>384</b>	<b>431</b>	<b>390</b>

### Voltage Profile During the Month of December 2010

Date	Indore		Itarsi		Bina		Gwalior		Nagda	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	417	395	417	400	416	395	425	386	426	401
2	421	400	423	406	423	401	426	391	429	406
3	421	397	425	402	427	395	430	390	428	402
4	417	394	421	402	426	404	425	394	424	403
5	420	391	423	397	422	397	426	396	426	395
6	419	391	424	396	419	391	422	384	428	394
7	417	394	421	386	415	385	425	385	427	400
8	415	384	419	393	417	383	424	381	423	390
9	420	393	423	400	421	388	425	380	428	398
10	417	394	424	403	421	398	423	384	426	399
11	416	391	420	399	417	395	423	384	426	394
12	421	390	423	396	423	388	430	382	430	396
13	418	384	421	390	419	393	427	388	430	390
14	416	391	421	396	419	398	425	391	427	401
15	414	387	421	393	418	392	424	380	424	396
16	417	400	421	404	420	397	418	384	427	407
17	417	395	420	403	414	400	420	390	428	404
18	419	397	420	400	417	401	418	393	429	406
19	421	393	425	400	423	394	426	382	430	400
20	420	393	426	400	419	391	425	383	428	400
21	420	396	424	397	418	397	421	385	430	406
22	416	396	422	400	415	389	422	380	427	403
23	415	396	419	401	413	395	416	383	426	405
24	416	392	420	396	415	391	419	380	426	399
25	418	391	420	396	415	372	411	385	430	397
26	420	393	424	397	420	387	425	380	429	400
27	419	390	427	398	421	401	422	390	428	397
28	419	400	428	411	422	403	423	396	429	409
29	417	395	428	407	424	405	426	392	427	402
30	418	393	425	400	422	393	430	395	428	400
31	416	392	420	399	423	394	431	391	426	399

EHV TRANSMISSION LINES UNDER PROGRESS DURING 2010-11 (AS ON 31.12.2010)								
S. No.	NAME OF THE TRANSMISSION LINE	TYPE OF CIRCUITS	ROUTE LENGTH	CKT.K MS.	(Rs.in Lakhs)	FUNDING AGENCY	ESTIMATED COST	PROGRESS IN %
					COMPLETION PROGRAMME			
A.	<b>400 KV TRANSMISSION LINES</b>	<b>NIL</b>						
B.	<b>220 KV TRANSMISSION LINES</b>							
1	Satna - Chhatarpur	DCSS	160	160	Dec-10	PFC	4288.00	98%
2	LILO of one circuit of 220KV Amarkantak - Birsinghpur line at 400 kv S/s Sukha (PGCIL) (2x150 km). (DCDS)	DCDS	150	300	Mar-11	ADB - II (S)	6685.00	99%
3	LILo of one Ckt of 220KV Bhopal-Bina DCDS line at Vidisha along with diversion work (2x23 Km)	DCDS	23	46	Dec-10	ADB - II	1305.00	65%
4	Dewas - Ashta	DCDS	73	146	2011-12	ADB - II	3052.00	80%
5	LILo of one ckt of 220kv Khandwa - Napanagar DCDS line for 220KV S/s Chhegaon (2x17.51)	DCDS	17.51	35.02	Dec-10	ADB - II	908.00	98%
6	Maheshwar - Pithampur line	DCDS	54	108	Feb-11	ADB - II	2845.00	87%
7	LILo of one ckt of 220kv Bina - Shivpuri line at 765KV S/s Bina of PGCIL (2x0.83)	DCDS	0.83	1.66	2011-12		143.00	44%
	<b>Sub Total (B)</b>		<b>478.34</b>	<b>796.68</b>			<b>19226</b>	
C.	<b>132 KV TRANSMISSION LINES</b>							
1	132KV Rajgarh (B) - Raghogarh DCSS	DCSS	72.4	72.4	Mar-11	ADB - II	1845.00	94%
2	Sironj - Maksoodangarh DCSS line	DCSS	60	60	Mar-11	PFC	1543.00	69%
3	Nagda - Mahidpur 2nd ckt	2nd ckt		23	Dec-10	GoMP	196.00	98%
4	Shahdol - Dindori DCSS line	DCSS	65	65	Mar-11	GoMP	2041.00	69%
5	Second Circuiting of 132 KV Sabalgarh - Sheopurkalan line	2nd ckt		93.25	Dec-10	ADB - II	600.00	99%
6	Sabalgarh (220 kv) - Vijaypur DCSS line	DCSS	33	33	Mar-11	ADB - II	813.00	71%
7	LILo of both ckts of 132 kv Betul - Multai line through Betul 220 kv S/s (2x3.75 + 2x3.55)	DCDS	7.3	14.6	Feb-11	ADB - II	372.00	59%
8	Betul (220kv) - Chicholi DCSS	DCSS	26.55	26.55	Dec-10	ADB - II	737.00	69%
9	LILo of 132 KV Chhegaon - Khandwa line at 220kv Chhegaon S/s	DCDS	15.6	31.2	Dec-10	ADB - II	515.00	80%
10	Vidisha - Shamsabad DCSS line	DCSS	57.84	57.84	Mar-11	ADB - II	1750.00	81%
11	132kv line for 132kv S/s at Amrawadkhurd (Bhopal)	DCSS	1.2	1.2	Mar-11		116.00	62%
	<b>Sub Total (C)</b>		<b>338.89</b>	<b>478.04</b>			<b>10528</b>	
	<b>Grand Total (A+B+C)</b>		<b>817.23</b>	<b>1274.72</b>			<b>29754.00</b>	

EHV SUB STATIONS UNDER PROGRESS DURING 2010-11 (AS ON 31.12.2010)								
S.No.	NAME OF THE SUBSTATION	VOLTAGE RATIO (KV)	No.OF X-mer & Cap. (MVA)	EFFECTIVE CAPACITY MVA	COMPLETION PROGRAMME	FUNDING AGENCY	ESTIMATED COST (Rs.in Lakhs)	PROGRESS IN %
<b>A.</b>	<b>400 KV SUBSTATIONS</b>							
	<b>Sub Total (A) (400 kv)</b>			<b>0</b>			<b>0.00</b>	
<b>B.</b>	<b>220 KV SUBSTATIONS</b>							
1	Mehgaon (ADDL) (Distt. Bhind)	220/132/33	1x160	160	2011-12	ADB - II	1064.00	40%
2	Ashta (ADDL) (Distt. Sehore)	220/132	1x160	160	2011-12	PFC - II	1147.00	40%
	<b>Sub Total (B) (220kv)</b>			<b>320</b>			<b>2211</b>	
<b>C.</b>	<b>132 KV SUBSTATIONS</b>							
<b>(a)</b>	<b>NEW SUBSTATIONS</b>							
1	Chicholi (Distt. Betul)	132/33	1x40	40	Dec-10	ADB - II	851.00	92%
2	Vijaypur (Distt. Sheopur)	132/33	1x40	40	Mar-11	ADB - II	841.00	49%
3	Dindori (Distt. Dindori)	132/33	1x40	40	Mar-11		1040.00	75%
4	Shamsabad (Distt. Vidisha)	132/33	1x40	40	Mar-11	Posed to PFC	958.00	37%
5	Mohna (Distt. Shivpuri)	132/33	1x40	40	2011-12		403.00	10%
6	Amrawadkhurd (Distt. Bhopal)	132/33	1x63	63	Mar-11	Posed to PFC	1182.00	97%
	<b>Sub Total (a)</b>			<b>263</b>			<b>5275</b>	
<b>C.</b>	<b>132 KV SUBSTATIONS</b>							
<b>(b)</b>	<b>Additional/ Augmentation of Transformers</b>							
1	Mandideep (Addl 1x40 MVA) (Distt. Raisen)	132/33		40	Mar-11		577.00	50%
	<b>Sub Total (b)</b>			<b>40</b>			<b>577</b>	
	<b>Grand Total (a+b+c) (132 kv)</b>			<b>303</b>			<b>5852</b>	
	<b>Grand Total (A+B+C)</b>			<b>623</b>			<b>8063</b>	
	<b>Total Cost of EHV Lines and Substations under progress (A+B+C)</b>						<b>37817.00</b>	<b>05.01.2011</b>

### Discoms wise Average Supply Hours

PARTICULARS	East Zone		Central Zone	
	Nov-10	Dec-10	Nov-10	Dec-10
Commissinary HQ	22:22	22:09	23:20	22:15
District HQ	20:31	19:58	22:08	19:51
Tehsil HQ	14:30	13:07	18:56	15:40
Rural -3Phase	11:19	10:13	15:21	10:58
Rural -1Phase	0:00	0:00	0:00	0:00
Total Rural	11:19	10:13	15:21	10:58
PARTICULARS	West Zone		MP	
	Nov-10	Dec-10	Nov-10	Dec-10
Commissinary HQ	23:18	23:27	22:56	22:27
District HQ	21:46	21:41	21:23	20:29
Tehsil HQ	14:51	14:46	16:01	14:23
Rural -3Phase	11:15	10:21	12:35	10:31
Rural -1Phase	0:00	0:00	0:00	0:00
Total Rural	11:15	10:21	12:35	10:31

**Anticipated Average Availability at MP Periphery: 2010-11  
WITH BILATERAL**

Figures in MW

Particulars	Jan-11					Feb-11					Mar-11				
	0 to 06	06 to 12	12 to 18	18 to 24	Energy in MU	0 to 06	06 to 12	12 to 18	18 to 24	Energy in MU	0 to 06	06 to 12	12 to 18	18 to 24	Energy in MU
Thermal (R-09)	1987	1987	1987	1987	1478	1987	1987	1987	1987	1335	1987	1987	1987	1987	1478
Hydel	310	70	90	630	205	50	20	30	470	96	50	0	30	430	95
CSS	1800	1800	1800	1800	1339	1860	1860	1860	1860	1250	1880	1880	1880	1880	1399
ISP	380	80	120	630	225	330	60	110	610	186	330	60	110	580	201
SSP	120	40	100	330	110	70	40	100	370	97	100	60	80	300	100
Omkareshwar	130	50	60	250	91	120	60	60	210	76	130	60	60	210	86
DVC	110	110	110	110	82	110	110	110	110	74	110	110	110	110	82
Rihand +Matatila	15	15	15	15	11	15	15	15	15	10	15	15	15	15	11
Banking+sale	950	105	13	213	238	825	80	-12	154	176	402	200	108	167	163
<b>Total</b>	<b>5802</b>	<b>4257</b>	<b>4295</b>	<b>5965</b>	<b>3779</b>	<b>5367</b>	<b>4232</b>	<b>4260</b>	<b>5786</b>	<b>3300</b>	<b>5004</b>	<b>4372</b>	<b>4380</b>	<b>5679</b>	<b>3615</b>

**Basis of Anticipated Availability for 2010-2011**

- 1 Central Sector :- Availability from Central Sector as per LGBR of WRPC, Mumbai including 200 MW for drought prone area of Bundelkhand.
- 2 Thermal :- As furnished by O&M : Generation , MPPGCL (as per R-9). & excluding Aux. Cons.
- 3 Hydel :- As furnished by O & M Hydel.
  - (a) Schedule of generation from Bansagar-III HPS shall depend upon requirement of water from Bansagar reservoir by Bihar Sate as per share.
  - (b) Schedule of Generation from Pench HPS shall depend upon reservoir level of Kheri dam of Govt. of MS Situated in down stream of Pench
  - (C) Schedule of generation for other HPS is also dependent on release of water allocated by WRD
- 4 ISP,OSP and SSP : As furnished by Respective Athourity.
- 5 Maheshwar : not considered due to uncertainty.
- 6 DVC : Considering Avaialability as furnished by MP Tradeco.

<b>Proposed Shut down of 400 KV Lines / ICTs ( 16th JAN-2011 to 15th FEB-2011)</b>						
Sr. No	NAME OF LINES / ICT's	CKT / ICT NO.	Outage Programme			REASON
			DATE	TIME		
				From	To	
1	400KV INDORE- NAGDA		17.01.11	7.00	17.00	MAINTENANCE WORKS
2	400KV ISP- NAGDA		24.01.11	8.00	17.00	MAINTENANCE WORKS
3	400KV SEONI-BHILAI		10.02.11	8.00	17.00	MAINTENANCE WORKS
4	400KV INDORE-ISP		16.02.11	9.00	18.00	MAINTENANCE WORKS
5	400kv BUS -I AT 400KV S/S INDORE		20.01.11	7.00	17.00	Connecting bus Ext work
6	400kv BUS -II AT 400KV S/S INDORE		22.01.11	7.00	17.00	Connecting bus Ext work
7	400 KV ISP MAIN BAY AT 400 KV S/S NAGADA		25.01.11	8.00	17.00	MAINTENANCE WORKS
8	400 KV ISP TIE MAIN BAY AT 400KV S/S NAGADA		26.01.11	8.00	17.00	MAINTENANCE WORKS
9	400 KV NAGADA -RAJGARH -I LINE BAY		04.02.11	8.00	17.00	MAINTENANCE WORKS
10	400 KV NAGADA -RAJGARH -I 50 MVAR REACTOR		05.02.11	8.00	17.00	MAINTENANCE WORKS
11	400 KV NAGADA -RAJGARH -I 50 MVAR REACTOR BAY		06.02.11	8.00	17.00	MAINTENANCE WORKS
12	400KVRAJGARH - I MAIN BAY		15.02.11	8.00	17.00	MAINTENANCE WORKS
<b>220 KV LINES</b>						
1	220KV IC- RAJGARH	I	10.02.11	9	18	POST- MONSOON MAINTENANCE WORKS



<b>Unitwise / Stationwise Generation in MU</b>				
<b>A. Thermal</b>				
Stn. Name	UNIT No.	Capacity MW	Nov-10	Dec-10
<b>AMARKANTAK</b>	3	120	0	0.00
	4	120	60.441	68.22
	<b>PH II</b>	<b>240</b>	<b>60.441</b>	<b>68.22</b>
	<b>PH III</b>	<b>210</b>	<b>133.711</b>	<b>155.47</b>
	<b>TOT</b>	<b>450</b>	<b>194.152</b>	<b>223.70</b>
<b>SATPURA</b>	1	62.5	35.261	34.00
	2	62.5	21.215	34.98
	3	62.5	31.681	27.55
	4	62.5	32.571	32.19
	5	62.5	35.762	33.34
	<b>PH I</b>	<b>312.5</b>	<b>156.49</b>	<b>162.07</b>
	6	200	97.915	106.73
	7	210	57.125	106.87
	<b>PH II</b>	<b>410</b>	<b>155.04</b>	<b>213.60</b>
	8	210	110.49	99.67
	9	210	109.005	87.86
	<b>PH III</b>	<b>420</b>	<b>219.495</b>	<b>187.53</b>
<b>TOT</b>	<b>1142.5</b>	<b>531.025</b>	<b>563.19</b>	
<b>SANJAY GANDHI</b>	1	210	42.757	106.18
	2	210	87.062	102.79
	<b>PH I</b>	<b>420</b>	<b>129.819</b>	<b>208.97</b>
	3	210	103.27	121.87
	4	210	74.162	126.01
	<b>PH II</b>	<b>420</b>	<b>177.432</b>	<b>247.89</b>
	<b>PH III</b>	<b>500</b>	<b>355.876</b>	<b>369.92</b>
	<b>TOT</b>	<b>1340</b>	<b>663.13</b>	<b>826.77</b>
<b>MPPGCL THERMAL</b>		<b>2932.5</b>	<b>1388.30</b>	<b>1613.66</b>
AMARKANTAK POWER HOUSE-I RETIRED FROM SERVICE WEF 01.04.2009				
<b>B. Hydel</b>				
Station Name	Capacity MW	Nov-10	Dec-10	
GANDHISAGAR	115.0	28.36	22.17	
R.P.SAGAR	172.0	39.40	39.18	
J.SAGAR	99.0	26.93	26.97	
CHAMBAL	386.0	94.68	88.32	
M.P.CHAMBAL	193.0	47.34	44.16	
PENCH	160.0	26.34	20.48	
M.P.PENCH	107.0	17.56	13.66	
BARGI	90.0	23.24	43.80	
TONS	315.0	64.22	60.17	
BIRSINGHPUR	20.0	0.57	0.04	
B.SGR(DEOLONDH)	60.0	0.00	0.00	
B.SGR(SILPARA)	30.0	6.94	6.84	
RAJGHAT	45.0	4.76	6.45	
M.P.RAJGHAT	22.5	0.00	0.00	
B.SGR(JINHA)	20.0	4.10	4.09	
MADIKHEDA	60.0	7.82	2.49	
<b>TOTAL HYDEL</b>	<b>1186.0</b>	<b>392.26</b>	<b>378.82</b>	
MPPGCL Hydel	915.0	166.35	166.54	
MPSEB HYDEL Share	917.5	171.79	175.25	
<b>C. NHDC</b>				
Indira Sagar Hydel Project	1000	164.55	224.89	
Omkareshwar Hydel Project	520	66.84	91.38	

**MP SUPPLY EXCLUDING AUXILIARY CONS.  
in Million Units**

S.No.	Particulars	Nov-10	Dec-10
1	MPSEB Thermal Availability	1196.35	1418.45
2	MPSEB Hydel Availability	172.00	175.96
3	Indira Sagar	164.53	224.90
4	Omkareshwar	66.84	91.38
5	Schedule / Drawal From Central Sector	1271.25	1397.91
6	Schedule of DVC	50.63	43.85
7	Sardar Sarovar	129.62	146.53
8	Additional Power Purchase	8.27	0.26
9	Sale of Power	0.00	0.00
10	Banking of Power	242.25	377.81
11	Energy Exchange	0.00	0.00
12	Unschedule Interchange	23.67	66.38
13	Other Imp / Exp	85.35	71.04
<b>14</b>	<b>Total MPSEB Supply excl. Aux. Cons.</b>	<b>3410.76</b>	<b>4014.47</b>
15	Average Supply per Day	113.69	129.50
16	Maximum Daily M.P. Supply	137.14	115.65
17	Minimum Daily M.P. Supply	96.30	97.83
18	Registered Demand : MW	7786	6153
24	Unrestricted Demand : MW	7961	7058

**Hourly Average Own Generation, Schedule Drawal, Actual Drawal & Demand**  
**Month :- November 2010**

**FIGURES IN MW**

Hrs.	FREQ.	Own Generation							Schedule from													Tot Avl.	Act. Drl	UI	Othe r Imp/Exp	DEMAND MET	Load Shedding			REST. DEMAND	UNRES T. DEMAND
		Ther. Incl Aux	Ther. Excl Aux	HYD.	ISP	OSP	Injection from STOA	Total	CSS	DVC ER	SSP	SEZ	Banking	Sale	Pur	Exchange	STOA	Rihand+ Mata	Total	SCH	UNSCH						TOTAL				
1:00	50.05	1902	1731	202	190	63	-2	2185	1690	67	18	11	728	0	6	0	2	8	2529	4714	2924	395	0	5109	1166	0	1166	5102	6269		
2:00	50.11	1898	1727	175	111	45	-2	2057	1688	67	18	10	769	0	6	0	2	8	2568	4625	2919	351	0	4976	1141	0	1141	4960	6101		
3:00	50.18	1888	1718	147	86	40	-3	1989	1683	67	11	11	817	0	6	0	3	8	2605	4594	2786	181	0	4776	1114	0	1114	4751	5865		
4:00	50.13	1888	1718	129	69	29	-2	1943	1658	67	7	11	823	0	6	0	2	8	2582	4526	2628	46	0	4572	989	0	989	4554	5543		
5:00	50.00	1886	1716	124	74	31	-3	1942	1642	67	7	11	822	0	6	0	3	8	2566	4509	2563	-3	0	4506	993	0	993	4506	5499		
6:00	49.88	1914	1742	126	124	54	-1	2045	1614	67	7	11	821	0	6	0	1	8	2534	4579	2546	12	0	4591	1004	5	1009	4613	5617		
7:00	49.96	1935	1761	178	141	59	13	2152	1701	67	14	10	224	0	6	0	-13	8	2018	4170	2262	244	0	4414	1307	37	1344	4456	5763		
8:00	49.97	1922	1749	186	141	61	13	2149	1706	67	14	10	192	0	6	0	-13	8	1991	4140	2071	80	0	4220	1801	6	1807	4231	6031		
9:00	49.90	1925	1751	159	120	61	14	2105	1712	67	14	10	151	0	6	0	-14	8	1956	4061	1969	13	0	4074	1999	13	2012	4101	6100		
10:00	49.93	1924	1750	173	105	57	14	2099	1686	67	270	10	65	0	6	0	-14	8	2099	4199	2058	-41	0	4158	1878	70	1948	4238	6116		
11:00	49.95	1905	1734	167	101	55	15	2071	1671	67	288	10	65	0	6	0	-15	8	2101	4172	2198	97	0	4269	1716	0	1716	4276	5992		
12:00	49.98	1917	1745	140	96	54	15	2050	1676	67	295	10	65	0	6	0	-15	8	2113	4164	2189	76	0	4239	1775	0	1775	4243	6017		
13:00	49.97	1927	1754	139	91	54	16	2053	1671	67	295	10	65	0	6	0	-16	8	2107	4160	2294	187	0	4347	1897	4	1900	4355	6252		
14:00	50.01	1926	1753	122	77	49	15	2015	1667	67	289	10	65	0	6	0	-15	8	2099	4114	2107	8	0	4122	1819	4	1823	4124	5943		
15:00	49.97	1917	1745	111	44	40	14	1954	1669	67	113	10	65	0	6	0	-14	8	1925	3878	1826	-99	0	3780	1729	27	1756	3811	5540		
16:00	49.95	1924	1750	142	50	36	14	1992	1668	67	40	10	65	0	6	0	-14	8	1852	3844	2066	214	0	4058	1643	12	1655	4077	5720		
17:00	49.92	1923	1750	145	130	56	14	2095	1658	67	40	10	65	0	6	0	-14	8	1842	3937	2023	181	0	4118	1460	24	1484	4154	5614		
18:00	49.82	1959	1783	278	391	136	13	2601	1661	67	46	10	137	0	22	0	-13	8	1939	4540	2176	237	0	4777	1518	31	1549	4834	6351		
19:00	49.99	1966	1789	418	683	232	1	3123	1712	67	489	10	137	0	21	0	-1	8	2444	5567	2270	-174	0	5393	1330	0	1330	5394	6724		
20:00	50.01	1991	1812	417	733	261	3	3226	1714	67	563	10	137	0	22	0	-3	8	2519	5746	2513	-7	0	5739	1222	0	1222	5738	6960		
21:00	49.98	1981	1803	463	738	270	2	3275	1721	67	563	10	137	0	22	0	-2	8	2528	5803	2705	177	0	5980	1045	6	1051	5988	7033		
22:00	50.11	1947	1772	424	640	254	3	3092	1743	67	563	10	137	0	22	0	-3	8	2549	5641	2700	152	0	5792	1030	18	1048	5795	6825		
23:00	50.05	1929	1755	389	482	188	0	2814	1754	67	157	10	340	0	22	0	0	8	2359	5173	2504	146	0	5319	1142	0	1142	5312	6454		
24:00	50.16	1917	1745	264	247	109	1	2366	1751	67	42	10	501	0	22	0	-1	8	2402	4767	2633	231	0	4999	1133	0	1133	4976	6109		
<b>Avg.</b>	<b>50.00</b>	<b>1925</b>	<b>1752</b>	<b>217</b>	<b>236</b>	<b>96</b>	<b>7</b>	<b>2308</b>	<b>1688</b>	<b>67</b>	<b>174</b>	<b>10</b>	<b>308</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>-7</b>	<b>8</b>	<b>2252</b>	<b>4568</b>	<b>2372</b>	<b>113</b>	<b>0</b>	<b>4680</b>	<b>1410</b>	<b>11</b>	<b>1421</b>	<b>4691</b>	<b>6102</b>		
<b>00 TO 06 HRS.</b>	50.06	1896	1725	151	109	44	-2	2027	1663	67	11	11	796	0	6	0	2	8	2564	4591	2728	164	0	4755	1068	1	1069	4748	5815		
<b>06 TO 12 HRS.</b>	49.95	1921	1748	167	117	58	14	2104	1692	67	149	10	127	0	6	0	-14	8	2046	4151	2125	78	0	4229	1746	21	1767	4257	6003		
<b>12 TO 18 HRS.</b>	49.94	1929	1756	156	130	62	14	2118	1666	67	137	10	77	0	9	0	-14	8	1961	4079	2082	121	0	4201	1677	17	1694	4226	5903		
<b>06 TO 18 HRS.</b>	49.94	1925	1752	162	124	60	14	2111	1679	67	143	10	102	0	8	0	-14	8	2004	4115	2103	100	0	4215	1712	19	1731	4242	5953		
<b>18 TO 24 HRS.</b>	50.05	1955	1779	396	587	219	1	2983	1733	67	396	10	232	0	22	0	-1	8	2467	5449	2554	88	0	5537	1150	4	1154	5534	6684		

**Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand**  
**Month :- December 2010**

FIGURES IN MW

Hrs.	FREQ.	Own Generation							Schedule from												Tot Avl.	Act. Drl	UI	Othe r Imp/Exp	DEMAND MET	Load Shedding			REST. DEMAND	UNRES T. DEMAND
		THER. Incl Aux	THER. Excl Aux	HYD.	ISP	OSP	Injection from STOA	Total	CSS	DVC ER	SSP	SEZ	Banking	Sale	Pur	Exchange	STO A	Riha nd+ Mata	Total	SCH						UNSCH	TOTAL			
1:00	50.02	2150	1956	109	56	25	-30	2116	1746	56	7	11	980	0	0	0	30	7	2837	4953	3379	542	0	5495	1037	0	1037	5493	6530	
2:00	50.13	2154	1960	99	30	13	-31	2072	1744	56	7	11	1008	0	0	0	31	7	2863	4935	3348	485	0	5420	940	0	940	5402	6342	
3:00	50.14	2147	1954	88	8	3	-32	2021	1733	56	7	11	1015	0	0	0	32	7	2860	4881	3174	313	0	5195	808	0	808	5175	5983	
4:00	50.11	2135	1943	82	0	0	-32	1993	1727	56	3	11	1012	0	0	0	32	7	2848	4841	2945	97	0	4938	920	0	920	4923	5843	
5:00	49.99	2116	1925	79	0	0	-26	1978	1726	56	3	11	1012	0	0	0	26	7	2842	4820	2890	48	0	4868	946	0	946	4869	5815	
6:00	49.89	2132	1940	91	201	86	-15	2303	1704	56	3	10	1012	0	0	0	15	7	2807	5110	2750	-58	0	5053	813	8	822	5077	5890	
7:00	49.79	2156	1962	165	288	112	-2	2525	1831	56	7	10	357	0	6	0	2	7	2276	4801	2263	-13	0	4788	1264	41	1305	4858	6123	
8:00	49.78	2165	1970	170	285	120	-2	2543	1823	55	7	10	340	0	0	0	2	7	2244	4788	2197	-48	0	4740	1639	26	1664	4796	6435	
9:00	49.72	2168	1972	191	288	126	1	2579	1819	55	7	10	289	0	0	0	-1	7	2185	4765	2313	127	0	4892	1819	74	1893	5006	6824	
10:00	49.81	2173	1977	240	285	124	2	2629	1814	55	347	10	173	0	1	0	-2	7	2405	5034	2409	4	0	5037	2078	41	2119	5105	7182	
11:00	49.79	2153	1959	255	285	121	2	2622	1813	55	388	10	173	0	0	0	-2	7	2443	5065	2615	172	0	5237	1927	13	1940	5279	7206	
12:00	49.77	2150	1956	265	279	119	3	2623	1807	55	391	10	173	0	0	0	-3	7	2440	5063	2610	170	0	5234	1904	43	1947	5309	7213	
13:00	49.81	2169	1974	286	284	123	4	2670	1815	55	391	10	173	0	0	0	-4	7	2447	5117	2685	237	0	5355	2191	23	2214	5404	7595	
14:00	49.91	2174	1979	271	244	113	2	2608	1814	55	391	10	182	0	0	0	-2	7	2456	5064	2417	-39	0	5025	2134	19	2153	5057	7190	
15:00	49.78	2173	1978	168	149	64	1	2359	1811	55	104	10	182	0	0	0	-1	7	2167	4527	2122	-45	0	4482	2139	26	2165	4540	6678	
16:00	49.80	2155	1961	160	140	59	0	2320	1812	55	7	10	192	0	0	0	0	7	2083	4402	2318	236	0	4638	2016	107	2122	4773	6788	
17:00	49.84	2168	1973	139	230	100	-1	2442	1815	55	7	10	192	0	0	0	1	7	2086	4528	2064	-22	0	4506	1880	80	1960	4608	6488	
18:00	49.79	2178	1982	229	405	160	2	2778	1802	55	7	10	284	0	0	0	-2	7	2162	4940	2219	57	0	4997	1885	75	1960	5102	6987	
19:00	49.97	2198	2000	357	817	320	1	3495	1792	55	483	10	304	0	0	0	-1	7	2650	6145	2429	-221	0	5925	1714	7	1721	5936	7650	
20:00	49.90	2226	2026	407	922	340	1	3696	1795	55	579	10	304	0	0	0	-1	7	2749	6445	2655	-94	0	6351	1534	6	1540	6370	7904	
21:00	50.01	2216	2016	462	927	352	-5	3754	1808	55	579	10	304	0	0	0	5	7	2767	6521	2917	150	0	6671	1298	6	1304	6675	7973	
22:00	50.15	2197	2000	386	771	315	-3	3468	1859	55	579	10	304	0	0	0	3	7	2817	6285	2996	180	0	6465	1222	11	1233	6456	7677	
23:00	50.00	2181	1985	322	481	201	-7	2982	1882	55	129	10	453	0	0	0	7	7	2542	5524	2766	224	0	5749	1451	17	1468	5766	7217	
24:00	50.18	2169	1974	156	106	71	-28	2278	1884	55	7	10	641	0	0	0	28	7	2632	4910	2978	347	0	5257	1603	6	1609	5237	6840	
<b>Avg.</b>	<b>49.92</b>	<b>2167</b>	<b>1972</b>	<b>216</b>	<b>312</b>	<b>128</b>	<b>-8</b>	<b>2619</b>	<b>1799</b>	<b>55</b>	<b>185</b>	<b>10</b>	<b>461</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>7</b>	<b>2519</b>	<b>5144</b>	<b>2644</b>	<b>119</b>	<b>0</b>	<b>5263</b>	<b>1548</b>	<b>26</b>	<b>1575</b>	<b>5301</b>	<b>6849</b>	
<b>00 TO 06 HRS.</b>	50.05	2139	1946	91	49	21	-28	2080	1730	56	5	11	1007	0	0	0	28	7	2843	4923	3081	238	0	5161	911	1	912	5156	6067	
<b>06 TO 12 HRS.</b>	49.78	2161	1966	214	285	120	1	2587	1818	55	191	10	251	0	1	0	-1	7	2332	4919	2401	69	0	4988	1772	40	1811	5059	6830	
<b>12 TO 18 HRS.</b>	49.82	2170	1974	209	242	103	1	2530	1812	55	151	10	201	0	0	0	-1	7	2234	4763	2304	71	0	4834	2041	55	2096	4914	6954	
<b>06 TO 18 HRS.</b>	49.80	2165	1970	211	264	112	1	2558	1815	55	171	10	226	0	1	0	-1	7	2283	4841	2353	70	0	4911	1906	47	1953	4986	6892	
<b>18 TO 24 HRS.</b>	50.04	2198	2000	348	671	267	-7	3279	1837	55	393	10	385	0	0	0	7	7	2693	5972	2790	98	0	6069	1470	9	1479	6073	7544	

**Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal**  
**Month :- November 2010**

**FIGURES IN MW**

Hrs.	FREQ.	CZONE			EZONE			WZONE		
		SCH	ACTUAL	O/U DRL	SCH	ACTUAL	O/U DRL	SCH	ACTUAL	O/U DRL
1:00	50.05	1521	1437	-84	1516	1558	41	1688	2106	418
2:00	50.11	1499	1415	-84	1504	1496	-8	1635	2065	429
3:00	50.18	1492	1377	-115	1499	1348	-151	1613	2048	435
4:00	50.13	1472	1365	-108	1482	1175	-308	1583	2026	443
5:00	50.00	1466	1379	-87	1475	1059	-416	1575	2065	490
6:00	49.88	1476	1359	-117	1476	1083	-393	1590	2146	557
7:00	49.96	1350	1340	-10	1354	1143	-211	1450	1943	493
8:00	49.97	1341	1346	5	1344	1154	-191	1444	1714	270
9:00	49.90	1317	1199	-118	1328	1015	-314	1413	1848	435
10:00	49.93	1335	1112	-223	1386	1083	-303	1462	1971	509
11:00	49.95	1323	1155	-168	1387	1185	-202	1464	1932	468
12:00	49.98	1311	1237	-75	1385	1193	-193	1460	1811	352
13:00	49.97	1308	1235	-73	1385	1194	-191	1456	1919	463
14:00	50.01	1301	1205	-96	1382	1100	-282	1446	1835	389
15:00	49.97	1237	1159	-78	1299	1167	-133	1349	1445	95
16:00	49.95	1228	1203	-25	1275	1141	-134	1323	1691	368
17:00	49.92	1237	1223	-13	1276	1068	-209	1343	1801	458
18:00	49.82	1385	1440	54	1387	1161	-226	1574	2135	561
19:00	49.99	1687	1641	-46	1713	1453	-260	2081	2278	197
20:00	50.01	1743	1692	-51	1785	1759	-26	2204	2277	73
21:00	49.98	1760	1744	-16	1799	1970	172	2222	2257	35
22:00	50.11	1724	1648	-76	1776	2008	232	2170	2140	-30
23:00	50.05	1629	1519	-110	1631	1797	165	1969	2000	31
24:00	50.16	1529	1427	-102	1532	1684	152	1763	1916	152
<b>Avg.</b>	<b>50.00</b>	<b>1445</b>	<b>1369</b>	<b>-76</b>	<b>1474</b>	<b>1333</b>	<b>-141</b>	<b>1637</b>	<b>1974</b>	<b>337</b>
<b>00 TO 06 HRS.</b>	50.06	1488	1388	-99	1492	1287	-206	1614	2076	462
<b>06 TO 12 HRS.</b>	49.95	1329	1231	-98	1364	1129	-236	1449	1870	421
<b>12 TO 18 HRS.</b>	49.94	1283	1244	-39	1334	1138	-196	1415	1804	389
<b>06 TO 18 HRS.</b>	49.94	1306	1238	-68	1349	1133	-216	1432	1837	405
<b>18 TO 24 HRS.</b>	50.05	1679	1612	-67	1706	1778	73	2068	2145	76

**Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal**  
**Month :- December 2010**

**FIGURES IN MW**

Hrs.	FREQ.	CZONE			EZONE			WZONE		
		SCH	ACTUAL	O/U DRL	SCH	ACTUAL	O/U DRL	SCH	ACTUAL	O/U DRL
1:00	50.02	1609	1556	-53	1612	1606	-5	1802	2333	530
2:00	50.13	1606	1556	-49	1610	1520	-90	1784	2343	559
3:00	50.14	1590	1566	-24	1597	1322	-275	1755	2306	551
4:00	50.11	1582	1558	-25	1589	1096	-493	1739	2285	546
5:00	49.99	1571	1554	-16	1579	1027	-551	1726	2287	560
6:00	49.89	1623	1518	-105	1613	1136	-477	1833	2399	566
7:00	49.79	1527	1516	-11	1516	1194	-322	1750	2077	327
8:00	49.78	1529	1561	32	1516	1203	-313	1746	1976	230
9:00	49.72	1519	1497	-22	1504	1224	-280	1751	2171	419
10:00	49.81	1568	1511	-56	1605	1300	-305	1841	2226	385
11:00	49.79	1576	1526	-50	1626	1505	-121	1876	2207	331
12:00	49.77	1572	1589	16	1624	1470	-153	1885	2175	290
13:00	49.81	1588	1563	-25	1636	1513	-123	1906	2279	373
14:00	49.91	1580	1532	-48	1632	1392	-240	1885	2102	216
15:00	49.78	1445	1427	-18	1470	1373	-98	1636	1682	46
16:00	49.80	1419	1307	-112	1419	1290	-129	1573	2041	468
17:00	49.84	1434	1239	-195	1430	1107	-323	1595	2161	565
18:00	49.79	1532	1427	-104	1510	1122	-389	1769	2448	679
19:00	49.97	1835	1697	-138	1841	1452	-389	2332	2776	444
20:00	49.90	1947	1756	-191	1958	1901	-57	2529	2694	165
21:00	50.01	1974	1877	-97	1979	2196	217	2540	2598	58
22:00	50.15	1917	1797	-121	1949	2180	231	2437	2488	52
23:00	48.54	1743	1604	-139	1734	1878	144	2135	2267	132
24:00	48.57	1588	1466	-123	1601	1659	59	1835	2132	297
<b>Avg.</b>	<b>49.79</b>	<b>1620</b>	<b>1550</b>	<b>-70</b>	<b>1631</b>	<b>1444</b>	<b>-187</b>	<b>1903</b>	<b>2269</b>	<b>366</b>
<b>00 TO 06 HRS.</b>	50.05	1597	1551	-45	1600	1285	-315	1773	2325	552
<b>06 TO 12 HRS.</b>	49.78	1549	1533	-15	1565	1316	-249	1808	2138	330
<b>12 TO 18 HRS.</b>	49.82	1500	1416	-84	1516	1299	-217	1727	2119	391
<b>06TO 18 HRS.</b>	49.80	1524	1475	-50	1541	1308	-233	1768	2129	361
<b>18 TO 24 HRS.</b>	49.52	1834	1699	-135	1844	1878	34	2301	2493	191

## TRIPPING REPORT FOR 11.12.2010

On 11.12.2010 at about **06.30** hrs. M.P. System was running normal at 49.81 Hz. At OSP four Machines were running on 206 MW generation. At 400 KV s/s Khandwa (PGCIL), 315 MVA ICT # 1 was out since 8.20 hrs./09.12.2010 due to failure of busing . To restrict the load on ICT # 2 at 400 KV s/s Khandwa, 220 KV Chhegaon–Nimarani line I & II and 220 KV OSP-Chhegaon were kept open. All three ICTs at 400 KV s/s Indore were loaded at 195, 196 & 190 MW respectively. Line loading on 220 KV Omkareshware- Burwaha was 43 MW, 220 KV Omkareshwar- Burwaha (tap Nimrani) was 78 MW and 220 KV Omkareshwar-Julwania was 83 MW.

At around **06.35** hrs. transient fault occurred on 220 KV Burwaha– Nimarani tap OSP. The fault was not cleared from Burwaha substation, resulting into tripping of both 220 KV Burwaha-Indore feeders from 400 KV s/s Indore in Y Phase Zone-III indication. 220 KV MOCB of Indore-Burwaha-I feeder delayed in clearing the fault resulting into initiation of LBB. Feeders connected on 220 KV Bus-I therefore tripped. This has also caused tripping of 220 KV OSP-Burwaha & 220 KV OSP-Burwaha (tap Nimrani) lines from OSP alongwith four running machines (Generation loss of 206 MW). 220 KV OSP Julwania line tripped/opened from remote end, i.e. 220 KV Julwania s/s. At the time of fault at 220 KV s/s Burwaha, air pressure of 220 KV Burwaha-OSP (tap Nimrani) went down due to heavy leakage causing CB lockout. All outgoing feeders at 200 KV s/s Burwaha tripped from other ends.

This has resulted in total supply failure at Omkareshwar HPS, 220 KV Burwaha, Nimrani, Julwaniya, Indore(East) and Dewas substations & connected 132 KV Sub-Stations at Chhoti khargone, Dhamnod , Manawar, Sahawad , Pensamed, Sendhwa, Khargone and Kasarwad.

Normalisation was started by charging 315 MVA Xmer-III at Indore at 07.30 Hrs. and system was normalized gradually.

## TRIPPING REPORT FOR 25.12.2010

On 25.12.2010 at around 13.45 hrs. MP System was running normal at Frequency 49.78 Hz. Load on Indore 400/220 KV ICTs was 3x227 MW and at Nagda Load on 220 KV ICTs was 3x 220 MW. 220 KV Indore- Jetpura – Ujjain link was closed and 220 KV Indore-Badnagar and Indore Pitampur link was kept open. The load on 220 KV Indore- Jetpura – I & II was 211 MW and 236 MW respectively and load on 220 KV Jetpura- Ujjain –I & II was 95 MW on each feeder.

At around 13.47 hrs. 220 KV Indore–Jetpura line-II tripped from both ends on A-phase zone-I protection and at **13.48 hrs.** The load of 220 KV Indore-Jetpura-220 line-II was shifted on 220 KV Indore–Jetpura-I causing tripping of line from Jetpura end on o/c B phase Indication . As a result of tripping of 220 KV Indore-Jetpura- I&II feeders, the load on 3x315 MVA ICTs at Nagda which was 185 MW each increased to 369 MW each,

causing tripping of all three ICTs at Nagda at 13.52 hrs. All five machines running at Gandhisagar (about 85 MW) also tripped.

On account of tripping as stated above total supply failed at 400 KV Nagda, 220 KV substations at Nagda, Neemuch, Ujjain, Badnagar, Barod, Jetpura and 132 KV substations at Khachrod, Ratlam, Daloda, Mandsaur, Sailana, Garoth, Suwasara, Alot, Jaora, Neemuch, Manasa, Malhargarh, Ratangarh, Ujjain, Agar, Ingoria, Mahidpur, Susner, Ratdia, Tarana, Ghosla, Jharda, Makdon, Maxi, Jhabua, Meghnagar, Depalpur, Kanwan, Gautampura, Sanwer, Indore North Zone and Indore Chambal. The supply failed at about 29 Nos 132 KV substations affected alongwith four sub-stations of 132 KV railway tractions.

The Stage-I and Stage-II overload scheme on 3x 315 MVA ICTs at Nagda operated. In Stage-I of overload scheme, 100 MVA 220/33 KV transformer, 132 KV Alot feeder and 132 KV Mahidpur feeder emanating from 220 KV substation Nagda are covered and also 132 KV Sailana feeder emanating from 220 KV s/s ratlam are covered. At 13:00 Hrs, load on 100 MVA transformer was of the order of 10 MW, while Alot, Mahidpur and Sailana feeder was simply ON. Thus by operation of Stage-I overload scheme load relief extended to the system was only 10 MW.

Stage-II overload scheme was connected on 220 KV Badod-Modak and Badod-Kota and 220 KV Nagda-Neemuch- I & II feeders. At the time of operation of stage-II, carrier signal from 400 KV substation Nagda was transmitted to Ujjain but signal was not transmitted to Ujjain-Badod link due to problem in NFBX contactor, unit of NSD-61 protection coupler. Thus due to operation of stage-II, the load relief was not obtained from 220 KV substation Badod. Also 220 KV Nagda-Neemuch feeder I&II were not tripped from 400 KV Nagda and load relief was not obtained.

Restoration was started by charging 220 KV Indore – Jetpura II at 14.01 Hrs. and system was normalized gradually. Supply interruption duration from 08 to 40 minutes at different substations.

The overloading scheme of 400 KV S/s Nagda ICTs has been reviewed by T& C and revised. Now after revision, 220 KV Badod-Modak and Badod-Kota have been connected to stage-I overload scheme which operates at definite time of 2.5 sec delay when loading of any ICTs at 400 KV S/s Nagda crosses 500 Amp (400 KV side). Xmers and feeders at 220 KV S/s Nagda and Ratlam connected in stage-I are not changed, so that O/L relief in stage-I is substantial in order to avoid outage of ICTs. At 220 KV S/s Nagda NFBX contactor unit (code-III) of NSD 61 protection coupler has been replaced. The carrier signal transmission checked from Nagda upto Badod and found in order.

In addition to the above, load dropping scheme at 200 KV s/s Jetpura has been installed. In case of outage of any one circuit in 220 KV Indore—Jetpura I&II, the load dropping scheme will operate and will trip all outgoing 33 KV feeders at 220 KV Jetpura alongwith tripping of 132 KV Depalpur –I & II feeders from 220 KV Jetpura to restrict the over loading.



**Annexure7.2(i)**

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
<b>RTU name -NAGDA 400 KV S/S</b>				
1	400/220 KV ICT I	OLTC	17	9
2	400/220 KV ICT II	OLTC	N/C	7
3	400/220 KV ICT III	OLTC	N/C	7
4	NGD –BINA 400 I & II	CB	NOT AVAILABLE	
5	NGD –RAJGRAH 400 I & II	CB	NOT AVAILABLE	
6	NGD –DEHGAON 400 I	CB	FAULTY	OPEN
7	NGD –DEHGAON 400 II	CB	FAULTY	CLOSE
8	400/220 KV XMER 3	CB	NOT AVAILABLE	
<b>RTU name NAGDA 220 KV S/S</b>				
1	125 MVA TRANSFORMER	OLTC	9#	8
2	160 MVA TRANSFORMER	OLTC	17	12
3	40 MVA TRANSFORMER -II	OLTC	17	5
4	125 MVA TRANSFORMER (132KV)	CB	CLOSE	CLOSE
5	125 MVA TRANSFORMER	CB	FAULTY	CLOSE
6	220 KV BUS COUPLER	CB	FAULTY	OPEN
7	220 KV BUS INTERCONNECTOR I & II	CB	CLOSE	CLOSE
8	160 MVA TRANSFORMER	CB	CLOSE	CLOSE
9	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
10	220/132 XMER NEW	MW	NOT AVAILABLE	40
11	220/132 XMER NEW	MVAR	NOT AVAILABLE	15
12	220/33 XMER NEW	CB	NOT AVAILABLE	CLOSE
13	220/33 XMER NEW	MW	NOT AVAILABLE	10
14	220/33 XMER NEW	MVAR	NOT AVAILABLE	2
15	NAGDA 132 KV GRASIM	CB	NOT AVAILABLE	CLOSE
16	NAGDA 132 KV GRASIM	MW	NOT AVAILABLE	5
17	NAGDA 132 KV GRASIM	MVAR	NOT AVAILABLE	0
18	220/132 XMER (132 SIDE)	CB	FAULTY	CLOSE
19	NAGDA132KV RATADIYA	CB	CLOSE	CLOSE
<b>RTU name DEWAS 220 KV S/S</b>				
1	BUS COUPLER 132 KV	CB	OPEN	OPEN
2	DEWAS IC II	CB	CLOSE	CLOSE
3	132 /33 KV TRANSFORMER 1	OLTC	N/C	8
4	132/33 KV TRANSFORMER 2	OLTC	N/C	7
5	220/132 KV TRANSFORMER 1	OLTC	N/C	7
6	220/132 KV TRANSFORMER 2	OLTC	N/C	7
7	DEWAS 220 KV -INDORE EAST	CB	FAULTY	CLOSE
8	DEWAS 220 KV -INDORE 400KV S/S	CB	FAULTY	CLOSE
9	DEWAS 132 KV -CHAPDA	CB	CLOSE	CLOSE
10	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
11	220/132 XMER NEW	MW	NOT AVAILABLE	55
12	220/132 XMER NEW	MVAR	NOT AVAILABLE	10
13	132/33 XMER NEW	CB	NOT AVAILABLE	CLOSE
14	132/33 XMER NEW	MW	NOT AVAILABLE	25
15	132/33 XMER NEW	MVAR	NOT AVAILABLE	5
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				

<b>RTU name UJJAIN 220 KV S/S</b>				
1	3X40 MVA TRANSFORMER	OLTC	5	11
2	220/132 KV TRANSFORMER 4	OLTC	N/C	6
3	160 MVA TRANSFORMER	OLTC	N/C	9
4	UJJAIN220 KV –JETPURA II	CB	CLOSE	CLOSE
5	63 MVA TRANSFORMER	CB	FAULTY	CLOSE
6	3X40 MVA TRANSFORMER (132 KV SIDE)	CB	OPEN	CLOSE
7	UJJAIN220 KV –NAGDA 2	CB	FAULTY	CLOSE
8	UJJAIN220 KV –BADOD 1	CB	FAULTY	CLOSE
9	UJJAIN 132 KV -GHOSLA	CB	FAULTY	CLOSE
<b>RTU name SHUJALPUR 220 KV S/S</b>				
1	160 MVA TRANSFORMER -I	OLTC	2	10
2	20 MVA TRANSFORMER	OLTC	10	5
3	160 MVA TRANSFORMER II	CB	CLOSE	CLOSE
4	160 MVA TRANSFORMER II (132 KV SIDE)	CB	CLOSE	CLOSE
5	20 MVA TRANSFORMER	CB	OPEN	CLOSE
6	132 KV BUS COUPLE	CB	CLOSE	CLOSE
7	2X33 MVAR CAPACITOR BANK	CB	OPEN	CLOSE
8	SHUJALPUR 220 KV-BHOPAL 2	CB	CLOSE	CLOSE
9	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
10	220/132 XMER NEW	MW	NOT AVAILABLE	30
11	220/132 XMER NEW	MVAR	NOT AVAILABLE	5
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name SHAJAPUR132 KV S/S</b>				
1	132/33 KV TRANSFORMER 1	OLTC	N/C	9
2	SHAJAPUR 132 KV-PANWADI	CB	CLOSE	CLOSE
3	132 KV BUS	VOLTAGE	134	130
4	132 KV BUS COUPLE	CB	FAULTY	OPEN
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name RATLAM 220 KV S/S</b>				
1	132/33 KV TRANSFORMER 2	OLTC	N/C	7
2	RATLAM 132 KV-MEGHNAGAR	MW	27	28
3	220 KV TRB	CB	FAULTY	OPEN
4	RATLAM 132 KV-TRACTION 2	CB	FAULTY	CLOSE
5	RATLAM –BADNAGAR	CB	CLOSE	CLOSE
6	RATLAM - NAGDA 2 NEW	CB	NOT AVAILABLE	CLOSE
7	RATLAM - NAGDA 2 NEW	MW	NOT AVAILABLE	10
8	RATLAM - NAGDA 2 NEW	MVAR	NOT AVAILABLE	5
9	RATLAM - SAILANA NEW	CB	NOT AVAILABLE	CLOSE
10	RATLAM - SAILANA NEW	MW	NOT AVAILABLE	8
11	RATLAM - SAILANA NEW	MVAR	NOT AVAILABLE	5
12	RATLAM 132 KV-KHACHROD	CB	CLOSE	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name NEEMUCH 220 KV S/S</b>				
1	220/132 KV TRANSFORMER 1	OLTC	N/C	7
2	220/132 KV TRANSFORMER 2	OLTC	N/C	8
3	NEEMUCH 132 KV INTER CONNECTOR II	CB	FAULTY	CLOSE
4	220 KV MAIN BUS	VOLTAGE	225	230
5	NEEMUCH 132 KV UDEYPUR	CB	FAULTY	CLOSE
6	132 KV BUS COUPLER	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
<b>RTU name BHOPAL 400 KV S/S</b>				
1	400/220 KV TRANSFORMER 3	OLTC	N/C	5
2	400 KV TIE BREKAR 3	CB	FAULTY	CLOSE
3	400 KV BHOPAL-DAMOH I&II	CB	FAULTY	OPEN
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name BHOPAL 220 KV S/S</b>				
1	BHOPAL132 KV-CHAMBLE I	CB	FAULTY	CLOSE
2	BHOPAL132 KV- CHAMBLE II	CB	FAULTY	CLOSE
3	220 KV TRB	CB	OPEN	OPEN
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name PIPARIA 132 KV S/S</b>				
1	132/33 KV TRANSFORMER 1	OLTC	N/C	4
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name SARNI 220 KV S/S</b>				
1	SARNI-SATPURA TPS 220 KV	CB	CLOSE	CLOSE
2	SARNI 220 KV TRB	CB	FAULTY	CLOSE
<b>RTU name BAIRAGARH 220 KV S/S</b>				
1	220 KV BUS 1	VOLTAGE	127	225
2	220 KV TRB	CB	CLOSE	CLOSE
3	BAIRAGRAH 220KV-LALGHATI II	CB	FAULTY	CLOSE
4	220/132 KV TRANSFORMER 1	CB	FAULTY	CLOSE
5	132/33 XMER	OLRC	17	10
6	220 KV BUS	FREQUENCY	N/C	49.78
7	BAIRAGRAH 132 KV BHOPAL NEW	CB	NOT AVAILABLE	CLOSE
8	BAIRAGRAH 132 KV BHOPAL NEW	MW	NOT AVAILABLE	19
9	BAIRAGRAH 132 KV BHOPAL NEW	MVAR	NOT AVAILABLE	8
10	220/132 XMER (160MVA) NEW	CB	NOT AVAILABLE	CLOSE
11	220/132 XMER (160MVA) NEW	MW	NOT AVAILABLE	30
12	220/132 XMER (160MVA) NEW	MVAR	NOT AVAILABLE	10
13	132/33 XMER (20 MVA) NEW	CB	NOT AVAILABLE	CLOSE
14	132/33 XMER (20 MVA) NEW	MW	NOT AVAILABLE	6
15	132/33 XMER (20 MVA) NEW	MVAR	NOT AVAILABLE	5
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU Name HANDIA 220 KV S/S</b>				
1	HANDIA –ITARSI 220 KV-1	MW	67	65
2	HANDIA –ITARSI 220 KV-1	MVAR	4	8
3	HANDIA –BARWAHA 220 KV	MW	143	143
4	HANDIA –BARWAHA 220 KV	MVAR	22	24
5	HANDIA –ITARSI 220 KV	CB	FAULTY	CLOSE
6	HANDIA –BURWAHA 220 KV	CB	FAULTY	CLOSE
7	220 KV TRB	CB	FAULTY	CLOSE
6	MEHGAON 132 KV RON	CB	FAULTY	CLOSE
7	132 KV BUS TRANSFER	CB	OPEN	OPEN
8	132 KV INTERCONNECTOR	CB	FAULTY	CLOSE
9	HANDIA –ITARSI 220 KV-2	MW	NOT AVAILABLE	-57
10	HANDIA –ITARSI 220 KV-2	MVAR	NOT VAILABLE	3
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				

**NOTE:- BHOPAL 220KV S/S RTU IS OUT OF ORDER.(CPU FAULTY)**

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
<b>RTU Name MALANPUR 220 KV S/S</b>				
1	132/33 KV TRANSFORMER 4	CB	CLOSE	CLOSE
2	220 KV BUS COUPLER I	CB	FAULTY	CLOSE
3	220 KV BUS COUPLER II	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU Name MEHGAON 220 KV S/S</b>				
1	220 KV BUS TRANSFER	CB	FAULTY	OPEN
2	220/132 KV TRANSFERMER	CB	FAULTY	CLOSE
3	MEHGAON 22KV- MALANPUR	CB	FAULTY	CLOSE
4	MEHGAON 22KV- AURIYA	CB	FAULTY	CLOSE
5	220/132 KV TRANSFERMER (132 KV SIDE)	CB	FAULTY	CLOSE
6	MEHGAON 132 KV RON	CB	FAULTY	CLOSE
7	132 KV BUS TRANSFER	CB	FAULTY	OPEN
8	132 KV INTERCONNECTOR	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name GWALIOR 220 KV S/S</b>				
1	132/33 KV TRANSFORMER 4	OLTC	N/C	9
2	132/33 KV TRANSFORMER 5	OLTC	N/C	9
3	GWALIOR 132 KV-BANMORE	CB	FAULTY	CLOSE
4	132 KV TRB	CB	FAULTY	OPEN
5	GWALIOR 132 KV-TRACTION I	CB	CLOSE	CLOSE
6	GWALIOR 132 KV-TRACTION II	CB	FAULTY	CLOSE
7	220/132 XMER I(132KV SIDE)	CB	CLOSE	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name GUNA 220 KV S/S</b>				
1	220/132 KV TRANSFORMER	OLTC	N/C	3
2	220 KV BUS 2	VOLTAGE	N/C	222
3	220 KV TRB	CB	FAULTY	OPEN
4	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
5	220/132 XMER NEW	MW	NOT AVAILABLE	42
6	220/132 XMER NEW	MVAR	NOT AVAILABLE	2
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
<b>RTU name Chindwada 132 KV S/S</b>				
1	132 KV TRB	CB	OPEN	OPEN
2	132/33 KV TRANSFORMER 2	OLTC	17	5
3	132/33 KV TRANSFORMER 2	CB	CLOSE	CLOSE
4	132/33 KV TRANSFORMER 3	MW	21	21
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name Pandurna 220 KV S/S</b>				
1	220/132 KV TRANSFORMER	OLTC	N/C	4
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name Narsingpur 220 KV S/S</b>				
1	220/132 KV TRANSFORMER 1	OLTC	N/C	7
2	220/132 KV TRANSFORMER 2	OLTC	N/C	5
3	132/33 KV TRANSFORMER 1	OLTC	N/C	6
4	NARSINGPUR220 KV-PIPARIYA	CB	FAULTY	
5	220/132 KV TRANSFORMER 2	MW	456	23
6	220/132 KV TRANSFORMER 2	MVAR	456	32
7	220/132 KV TRANSFORMER 2	CB	NOT AVAILABLE	
8	220 KV TRB	CB	OPEN	CLOSE
9	132/33 KV TRANSFORMER 2	MW	NOT AVAILABLE	
10	132/33 KV TRANSFORMER 2	MVAR	NOT AVAILABLE	
11	132/33 KV TRANSFORMER 2	CB	NOT AVAILABLE	
12	NARSINGPUR132 KV-BARMAN 2	MW	NOT AVAILABLE	4.6
13	NARSINGPUR132 KV-BARMAN 2	MVAR	NOT AVAILABLE	2.8
14	NARSINGPUR132 KV-BARMAN 1	MW	1	1.8
15	NARSINGPUR132 KV-BARMAN 1	MVAR	5	4.7
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name Jabalpur 220 KV S/S</b>				
1	220/132 KV TRANSFORMER 1	CB	FAULTY	CLOSE
2	220/132 KV TRANSFORMER 2	CB	FAULTY	CLOSE
3	220 KV TRB	CB	FAULTY	OPEN
4	132 KV TRB	CB	FAULTY	OPEN
5	JABALPUR 132 KV- MADHOTAL	CB	FAULTY	CLOSE
6	220/132 KV TRANSFORMER 2	MW	206	70
7	JABALPUR220KV-BIRSINGHPUR 1 & 2	CB	NOT AVAILABLE	
8	132/33 KV TRANSFORMER 2	CB	FAULTY	CLOSE
9	JABALPUR-132KV BARGI 1& 2	MW	NOT AVAILABLE	
10	JABALPUR-132KV BARGI 1& 2	MVAR	NOT AVAILABLE	
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name KATNI 220 KV S/S</b>				
1	220KV	FREQUENCY	N/C	49.44
2	220 KV BUS COUPLER	CB	FAULTY	CLOSE
3	220 KV TRB	CB	FAULTY	OPEN
4	220/132 KV TRANSFORMER 2	MW	NOT AVAILABLE	
5	220/132 KV TRANSFORMER 2	MVAR	NOT AVAILABLE	
6	220/132 KV TRANSFORMER 2	CB	NOT AVAILABLE	
7	220/132 KV TRANSFORMER 1 & 2	OLTC	NOT AVAILABLE	

RTU name KATNI 400 KV S/S				
1	400 KV BUS COUPLER	CB	FAULTY	CLOSE
2	400/220KV ICT	CB	FAULTY	CLOSE
3	400KV KATNI-DAMOH-1	CB	FAULTY	CLOSE
4	400KV KATNI-DAMOH-1I	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				

**NOTE:- JABALPUR 220 KV S/S & BOREGAON S/S RTUs ARE OUT OF ORDER.(CPU FAULTY)**

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
<b>RTU name Satna 220 KV S/S</b>				
1	220/132 KV TRANSFORMER 2	OLTC	N/C	7
2	132/33 KV TRANSFORMER 1	OLTC	N/C	7
3	132/33 KV TRANSFORMER 2	OLTC	N/C	7
4	SATNA 220KV-SATNA PGCIL 2	CB	OPEN	CLOSE
5	SATNA 132 KV-PANNA	CB	FAULTY	CLOSE
6	SATNA 132 KV INTERCONNECTOR 2	CB	FAULTY	CLOSE
7	SATNA 132 KV 2	VOLTAGE	0	134
8	SATNA 132 KV-PRISM CEMENT	CB	NOT AVAILABLE	
9	SATNA 132 KV	MW	NOT AVAILABLE	
10	SATNA 132 KV	MVAR	NOT AVAILABLE	
11	SATNA 220 KV TONS 1 & 2	CB	NOT AVAILABLE	
12	SATNA 220 KV TONS 1 & 2	MW	NOT AVAILABLE	
13	SATNA 220 KV TONS 1 & 2	MVAR	NOT AVAILABLE	
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name Morwa 132 KV S/S</b>				
1	MORWA 132KV-WAIDHAN	CB	CLOSE	CLOSE
2	132/33 KV TRANSFORMER 1	OLTC	N/C	7
3	132/33 KV TRANSFORMER 2	OLTC	N/C	7
4	132/33 KV TRANSFORMER 3	CB	NOT AVAILABLE	
5	132/33 KV TRANSFORMER 3	MW	NOT AVAILABLE	
6	132/33 KV TRANSFORMER 3	MVAR	NOT AVAILABLE	
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				

**NOTE:- SATNA 132KV S/S RTU IS OUT OF ORDER.(CPU FAULTY)**

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
<b>RTU name -Indore 400 KV S/S</b>				
1	INDORE -ISP 400 KV II	CB	CLOSE	CLOSE
2	INDORE -UJJAIN 220 KV	CB	OPEN	OPEN
3	INDORE -DEWAS 220 KV	CB	CLOSE	CLOSE
<b>RTU Name INDORE NZ 220 KV S/S</b>				
1	220 KV BUS 2	VOLTAGE	0	227
2	160 MVA XMER 1	OLTC	6	8
3	40 MVA XMER	OLTC	4	5
4	220 KV TRB	CB	FAULTY	OPEN
5	220 KV BUS COUPLER	CB	FAULTY	OPEN
6	STN. XMER	CB	FAULTY	CLOSE
7	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
8	220/132 XMER NEW	MW	NOT AVAILABLE	48
9	220/132 XMER NEW	MVAR	NOT AVAILABLE	10
10	132/33 XMER NEW	CB	NOT AVAILABLE	CLOSE
11	132/33 XMER NEW	MW	NOT AVAILABLE	16
12	132/33 XMER NEW	MVAR	NOT AVAILABLE	5
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU Name INDORE CHAMBLE132 KV S/S</b>				
1	63 MVA XMER	OLTC	8	17
2	20 MVA XMER	OLTC	8	17
3	40 MVA XMER	OLTC	8	17
4	20 MVA XMER	CB	FAULTY	CLOSE
5	CHAMBLE132 KV-INDORE N.ZONE II	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name -Indore S.ZONE 220 KV S/S</b>				
1	160 MVA TRANSFORMER	OLTC	17	11
2	3X40 MVA TRANSFORMER I	OLTC	1	16
3	3X40 MVA TRANSFORMER II	OLTC	15	16
4	40 MVA TRANSFORMER I	OLTC	9#	11
5	40 MVA TRANSFORMER II	OLTC	17	4
6	160 MVA TRANSFORMER	CB	OPEN	CLOSE
7	IND S/Z TO CAT -1	CB	CLOSE	CLOSE
8	IND S/Z TO CHAMBLE	CB	OPEN	CLOSE
9	3X40 MVA TRANSFORMER II(132KV SIDE)	CB	CLOSE	CLOSE
10	IND S/Z TO UJJAIN	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name Pitampur 220 KV S/S</b>				
1	220 KV TRB	CB	FAULTY	OPEN
2	PITAMPUR 220 KV-RATLAM	CB	FAULTY	CLOSE
3	132/33 KV TRANSFORMER 2	OLTC	N/C	8
4	132/33 KV TRANSFORMER 3	OLTC	N/C	11
5	PITAMPUR 132 KV-HML	CB	FAULTY	OPEN
6	132 KV TRB	CB	FAULTY	OPEN
7	132 KV BUS COUPLE	CB	FAULTY	OPEN
8	132/33 KV TRANSFORMER 1	CB	CLOSE	CLOSE
9	132/33 KV TRANSFORMER 2	CB	OPEN	CLOSE
10	132/33 KV TRANSFORMER 3	CB	OPEN	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				



<b>RTU name Burwaha 220 KV S/S</b>				
1	160 MVA XMER	OLTC	17	3
2	3X40 MVA XMER	OLTC	17	3
3	63 MVA XMER	OLTC	17	4
4	220 KV BUS COUPLER	CB	FAULTY	OPEN
5	220 /132 KV TRANSFORMER 1	CB	FAULTY	CLOSE
6	220 /132 KV TRANSFORMER 2 (132 KV SIDE)	CB	FAULTY	CLOSE
7	220 /132 KV TRANSFORMER2 (132 KV SIDE)	CB	FAULTY	CLOSE
8	BURWAHA 132KV-CHEGAON	CB	FAULTY	CLOSE
9	BURWAHA 220 KV NIMRANI	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name Neapanagar 220 KV S/S</b>				
1	160 MVA XMER	OLTC	1	9
2	3X40 MVA XMER	OLTC	17	15
3	63 MVA XMER	OLTC	17	5
4	220 KV TRB	CB	OPEN	OPEN
5	NEPA –CHEGAON 132 KV	CB	FAULTY	CLOSE
6	132/33 XMER (20 MVA) NEW	CB	NOT AVAILABLE	CLOSE
7	132/33 XMER (20 MVA) NEW	MW	NOT AVAILABLE	15
8	132/33 XMER (20 MVA) NEW	MVAR	NOT AVAILABLE	5
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				

<b>RTU name –DAMOH 220 KV S/S</b>				
Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
<b>RTU name -Bina 400 KV S/S</b>				
1	400/220 KV XMER III	CB	FAULTY	CLOSE
2	220KV BINA-BINA-1	MW	83	83
3	220KV BINA-BINA-2	MW	83	83
4	220KV TRB	CB	CLOSE	CLOSE
5	BINA 220 KV-GWALIOR 1&2	CB	FAULTY	CLOSE
6	40KB TIE BKR 2	CB	CLOSE	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU name -Bina 220 KV S/S</b>				
1	BINA 132 KV-CAPACITOR BANK	CB	FAULTY	CLOSE
2	BINA 132 KV-GANGBASODA	CB	NOT AVAILABLE	CLOSE
3	BINA 132 KV- BORL 1 &2	CB	NOT AVAILABLE	
4	BINA 132 KV- BORL 1 &2	MW	NOT AVAILABLE	
5	BINA 132 KV- BORL 1 &2	MVAR	NOT AVAILABLE	
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
1	DAMOH 220 KV SAGAR	MW	181	125
2	220/132 XMER NO-1	MW	0	0
3	220/132 XMER NO-1	MVAR	0	0
4	220/132 XMER 2	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				

**NOTE:- TIKAMGARH220 KV S/S RTU IS OUT OF ORDER.(CPU FAULTY)  
SAGAR 132KV RTU IS OUT DUE TO PLCC LINK NON AVAILIBILITY.**

**RTU NAME- Amarkanatak Thermal Power Station**
**Annexure 7.2(ii)**

S.N	Description		Telemetred value at site	Telemetred value at SLDC
1	ATPS 220/6.6 KV Stn Xmer II	CB	CLOSE	FAULTY
2	ATPS220KV-SIDHI	MW	70 MW	76 MW
3	ATPS220KV-SIDHI	MVAR	31 MVAR	6 MVAR
4	ATPS220KV-BRS220 III	MW	7 MW	31 MW
5	GENERATOR 5	CB	CLOSE	N/C
6	ATPS220KV-BRS220 III	CB	CLOSE	N/C
7	ATPS 220/6.6 KV Stn Xmer A	CB	CLOSE	N/C
8	ATPS 220/6.6 KV Stn Xmer B	CB	CLOSE	N/C
9	ATPS SIDHI	CB	CLOSE	N/C
10	132/33 KV TRANSFORMER 4	OLTC	6	N/C
11	132/33 KV TRANSFORMER 5	OLTC	6	N/C
12	BUS COUPLER	CB	CLOSE	FAULTY
13	GENERATOR-3	CB	OPEN	FAULTY

SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED

**RTU NAME- Birsingpur Thermal Power Station**

1	BRS220 KV IC 1	MW	138 MW	17 MW
2	BRS220 KV IC 1	MVAR	0 MVAR	5 MVAR
3	BRS 400 GENERATOR#5	CB	CLOSE	FAULTY
4	BRS 400 BUS COUPLER	CB	CLOSE	FAULTY
5	BRS 400 BUS CUM TIE BKR.	CB	OPEN	FAULTY
6	BRS 400 MAIN BUS 1 VOLTS	VOLTS	411	N/C
7	BRS 400 MAIN BUS 1 FREQ	HZ	49.63	N/C

SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED.

**RTU NAME- Satpura Thermal Power Station –I**

1	STPS PH I Stn Xmer I I I	CB	CLOSE	FAULTY
2	STPS PH I BUSCOUPLER I	CB	OPEN	FAULTY
3	STPS PH I TRB I	CB	OPEN	FAULTY
4	STPS PH I TRB II	CB	OPEN	FAULTY
5	STPS PH 2 GENERATOR 6 (GT)	MVAR	20	N/C
6	STPS PH 2 GENERATOR 7 (GT)	MVAR	15	N/C
7	STPS PH 2 MAIN BUS 1	VOLTAGE	228	220
8	STPS PH 2 MAIN BUS 1	FREQ.	49.57	49.90
9	STPS PH 2 MAIN BUS 2	VOLTAGE	228	220
10	STPS PH 2 MAIN BUS 2	FREQ.	49.57	49.93
11	STPS ITARSI 3	CB	CLOSE	FAULTY

**RTU NAME- MADIKHEDA HYDEL POWER STATION**

1	GENERATOR 1	CB	OPEN	FAULTY
2	GENERATOR 2	CB	OPEN	FAULTY
3	GENERATOR 3	CB	OPEN	FAULTY
4	Madhikheda 132 Kv- Karera I	CB	OPEN	FAULTY
6	Madhikheda 132 Kv- Karera I	MW	10	0
7	Madhikheda 132 Kv- Karera I	MVAR	5	0
8	Madhikheda 132 Kv- Karera II	MW	10	0
9	Madhikheda 132 Kv- Karera II	MVAR	5	0

SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED

**RTU NAME- Tons hydel Power Station**

1	STN. XMER	MW	0	2
2	STN. XMER	MVAR	1	0
3	220/33 STN XMER	CB	OPEN	FAULTY
4	GENERATOR 1	CB	CLOSE	faulty
5	GENERATOR 3	CB	CLOSE	faulty
6	BUSCOUPLER	CB	OPEN	faulty
7	REWA-I	CB	CLOSE	FAULTY

SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED

**RTU NAME- Bargi hydel Power Station**

1	BARGI 132 KV –JABALPUR 2	CB	Close	faulty
2	STN. XMER	CB.	OPEN	Faulty

SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED

<b>RTU NAME- Pench hydel Power Station</b>				
1	GENERATOR 2	CB	OPEN	CLOSE
2	SEONI-I	CB	OPEN	CLOSE
3	SEONI-II	CB	OPEN	CLOSE
4	132/33KV XMER-I	CB	OPEN	CLOSE
<b>RTU NAME- Gandhi sagar hydel Power Station</b>				
1	GENERATOR 4 & 5	CB	CLOSE	FAULTY
2	132/33 KV XMER	OLTC	9	6
3	132/33 KV XMER	CB	CLOSE	FAULTY
SOE CONNECTION FOR ALL FEEDERS NEED TO BE DONE				
<b>RTU NAME- Rajghat hydel Power Station</b>				
1	RAJGHAT132 KV-LALITPUR	MW	0	5
2	RAJGHAT132 KV-LALITPUR	MVAR	3	5
3	RAJGHAT132 KV-LALITPUR	CB	open	faulty
<b>RTU NAME ISP HYDEL POWER STATION</b>				
1	INDORE-I	CB	CLOSE	OPEN
2	INDORE-2	CB	CLOSE	OPEN
3	GENERATOR-2	CB	OPEN	CLOSE
4	GENERATOR-3	CB	OPEN	CLOSE
5	GENERATOR-5	CB	CLOSE	OPEN
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				
<b>RTU NAME BANSAGAR-II HYDEL POWER STATION</b>				
1	132/33KV STN XMER	CB	CLOSE	FAULTY
2	BUSCOUPLER	CB	OPEN	FAULTY
3	220/132KV 160MVA XMER	CB	CLOSE	FAULTY
<b>RTU NAME OSP HYDEL POWER STATION</b>				
SOE DATA NOT RECEIVED.CONNECTIONS FOR ALL FEEDERS HAVE TO BE VERIFIED				